L 16790-66 EWP(e)/EWT(m) WE

ACC NR: AF60025kl (A) SOURCE CODE: UR/0286/65/000/023/00kl/00k2

AUTHORS: Rogozhin, Iu. V.; Syritskaya, Z. M.; Ushanova, A. V.; Mazurov, M. K.;

Zadorozhnyy, V. K.; Ignat'yev, O. S.; Goroshchanko, Ya. Q.

ORG: none

TITLE: A method for preparing titanium-containing enamels and glassy crystalline materials. Class 32, No. 176663

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, kl-k2

TOPIC TAGS: titanium, enamel, sphene, perovskite, crystalline matter, specialized

ABSTRACT: This Author Certificate presents a method for preparing titanium-containing enamels and glassy crystalline materials. To broaden the base of raw materials and to improve the physico-chemical properties of enamels and glassy crystalline material, the minerals sphene and perovskite are introduced into the

original charge.

SUB CODE: 07, 13/

SUBM DATE: 09Aug62

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UDC: 666.293.5

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S/115/60/000/007/008/011 B019/B058

9.6000 AUTHORS:

Mazurov, M. Ye., Prudnikov, I. N.

TITLE:

The Measurement of Direct and Alternating Currents by

Means of the Hall Effect

PERIODICAL:

Izmeritel'naya tekhnika, 1960, No. 7, pp. 45 - 46

TEXT: If an alternating current flows through a magnetic coil and a Hall pickup, both connected in series, formula (1)

 $U_r = kI^2 + kI^2 \cdot \cos 2\omega t$  is valid for the Hall voltage, as is well known.

It may be seen from this relation that the Hall voltage has a constant component which can be measured by means of a millivoltmeter. This constant component of the Hall voltage can be used for the measurement of an alternating current. The small quantity of the constant voltage component and the nonlinear dependence of this voltage component on the current measured are the drawbacks of such an instrument. The frequency range to which this instrument can be used is limited by the coil inductance, and a radical method for the reduction of this coil inductance

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The Measurement of Diract and Alternating Currents by Means of the Hall Effect

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by using a ferromagnetic core is mentioned. Furthermore, the influence of foreign magnetic fields is prevented by using two pickups. The frequency range can be further widened by means of a correction link (Fig. 3), consisting of a resistance and a capacitance. The compensation of the temperature error by using the negative temperature coefficient of the material of the Hall pickup, is dealt with next. The authors finally discuss such an instrument, the circuit of which is shown in Fig. 4. The 3 measuring ranges are 2.5, 5, and 10 a, the frequency ranges from 0 to 100 kilocycles, the error amounts to 3.5%, and the temperature error amounts to 1% in the range of from 10 to 40°C. There are 4 figures and 2 Soviet references.

4

Card 2/2

ANDRETEV, V.S.; MAZUROV, M.Ye.; FRUDNIKOV, I.H.

Use of the Hall effect in frequency dividers. Elektrosviaz: 14 no.9:12-19 S'60. (MIRA 13:9)

(Frequency changers) (Hall effect)

9,4370

1413, 1530, 1496

26453

S/115/61/000/007/004/004

E073/E535

**AUTHORS:** 

18 8100

Andreyev, V. S., Mazurov, M.Ye. and Prudnikov, I.N.

TITLE:

Application of the Hall effect for investigating the

properties of cores of ferromagnetic materials

PERIODICAL: Izmeritel'naya tekhnika, 1961, No.7, pp.36-37

TEXT: Various authors have suggested using the Hall effect for recording the dynamic magnetization curve of ferromagnetics. However, the Hall constant of the used ferromagnetic materials was too low to achieve a satisfactory sensitivity. propose using special semiconductor Hall pick-ups for investigating the magnetic characteristics of closed specimens and of specimens A sketch, Fig.1, is reproduced showing an with air gaps. arrangement for specimens with air gaps in which the output from the Hall pick-up is fed to an oscillograph. In such circuits the reluctance of the magnetic circuit without the air gap must be much higher than the reluct ance of the air gap. A sketch, Fig. 2, is also shown or a circuit for investigating specimens of simple geometrical shape in which a part of the magnetic circuit 1 is made of material with a high permeability and high saturation Card 1/3

Application of the Hall effect ...

26453 \$/115/61/000/007/004/004 E073/E535

induction, whilst another part 2 is of a simple shape and is formed by the specimen under investigation. To reduce the air gap to a minimum, the author recommends using pick-ups in the form of The various sources of error are briefly enumerated, thin films. mentioning that they have been dealt with in greater detail in another paper of the authors (Ref.6: Trudy uchebnykh institutov svyazi, 1961, No.1). By good design and satisfactory compensation the accuracy of this method can be increased to be comparable with the accuracy of instruments based on other principles. The method was applied for cores of various materials (transformer steel, permalloy and ferrites). Due to the extremely low inertia, Hall pick-ups can be used for determining the magnetization curve up to very high frequencies. By using low frequency generators and oscillographs, this method permits determining the characteristics of materials which are near to the static characteristic , for instance, curves recorded at a frequency of 15 c.p.s. differ from curves recorded with d.c. by only 1 to 2%. There are 2 figures and 6 references: all Soviet.

Card 2/3

34675

24.2200 (1068,1147,1482)

S/115/62/000/003/009/010 E192/E382

**AUTHOR** 

Mazurov, M. Ye.

TITLE

The induction method of measuring alternating magnetic fields

PERIODICAL: Izmeritelinaya tekhnika, no. 2, 1962, 42 - 44

TEXT. The induction method of measuring the strength of alternating magnetic fields permits the design of a measuring instrument which has the merits of devices based on galvanothe author - Author's Certificate - no. 130112, 21e, 12. Byulleten izobreteniy, 1960, no. 14). The electrical circuit of such an instrument is shown in the figure. The instrument consists of an induction pick-up 1 of the magnetic field, which is in the form of a flat coil having n turns of wire, an integrating network R', L or R" and an output-voltage indicator (for example, an AC millivoltmeter). When the induction e.m f. induced at the output terminals of the pick-up is given Card 1/5

The induction method of .....

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 $E = nS\omega H_m \cos \omega t \cos \phi$ 

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(1)

where  $H_{m}$  is the amplitude of the magnetic field,

S the area of the induction pick-up,

us the frequency of the magnetic field and us the angle between the magnetic-field vector

and the normal to the plane of the pick-up coil. In general, it is necessary to keep  $\cos \phi = 1$  in order to obtain the largest possible amplitude of the output voltage It is seen from Eq. (1) that E is proportional not only to me but also  $\omega$ . Consequently, an integrating network is

introduced in order to eliminate the frequency dependence of the output signal. If the network consists of R' and L (the inductance L' of the pick-up being neglected), the amplitude of the output signal can be expressed as:

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$$U_{1}^{i} = \frac{nS\omega H_{m}R^{i}}{R^{i} + r^{i} + j\omega L^{i}}$$
(2)

where r is the ohmic resistance of the pick-up If

$$\omega L \nearrow R^{r} + r^{r} \tag{3}$$

the output signal can be regarded as being independent of frequency. Similar expressions are derived for the R". C integrating network and it is concluded that the error caused by the frequency effect increases inversely proportionately to the frequency of the measured magnetic field. However, if the frequency of the magnetic field is increased, the current in the pick-up is comparatively large and it induces a magnetic field  $H_{\text{T}}$  which is directed against the measured field H.

The ratio of the induced and the measured fields for the case of  $\|L^{\perp}\|_{*}$  R integrating network is expressed by

Card 3/5

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The induction method of ...

 $\frac{H_{1D}}{H_{m}} = \frac{nL^{\tau}}{\left(nL^{\tau} + L\right) \sqrt{1 + \left(\frac{\tau}{\omega(nL + L)}\right)^{2}}}$ (11)

from which it is seen that for nL'  $\ll$  L the influence of the induced magnetic field can be disregarded. On the other hand in the case of the R" C integrating network there exists a limiting frequency above which the value of the secondary magnetic field becomes prohibitive. The frequency error at low frequencies can be reduced by introducing correction elements  $C_K$  for the first integrating circuit and and inductance  $L_K$  and resistance  $R_K$  for the second circuit,

Card 4/5

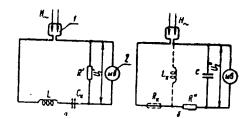
The induction method of ....

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An instrument based on the above principle was investigated experimentally. The instrument had a pick-up consisting of 15 turns of 0.05 mm diameter wire, which was wound on a frame of 0.5 cm. The inductance of the pick-up was 2.5  $\mu$ henries. The instrument was provided with a compensating circuit. The investigated magnetic field was produced in the air gap of a small electromagnet. It was found that the errors of measurement over the frequency range 0.3 - 100 kc/s did not exceed 5% (even if the low-frequency correction metwork was not used). There are 1 figure and 4 Soviet-bloc references.

+

## Figure:



Card 5/5

9,4370

5/024/62/000/002/010/012 E140/E135

AUTHORS:

(Moscow) Mazurov, M.Ye., and Prudnikov, I.N.

TITLE:

Multiplier using three-electrode Hall-effect device

FERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye

tekhnicheskikh nauk. Energetika i avtomatika,

no.2, 1962, 148-155

Derivation of equations and circuit considerations on the use of three-electrode Hall-effect devices as analogue multipliers. The principal advantage is the existence of a

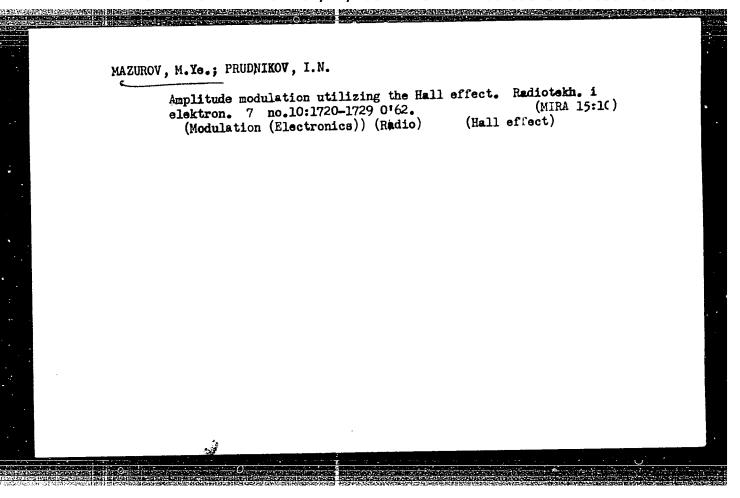
common point for the input and output circuits. The sensitivity is half that of the normal Hall-effect device. A.A.Kharkevich

suggested the subject matter of this investigation.

There are 7 figures and 1 table.

SUBMITTED: May 23, 1961

Card 1/1



MAZUROV, M.Ye.

Concerning some special operating features of diode limiters of instantaneous voltage values. Radiotekhnika 17 no.9:68-74 s '62. (MIRA 15:9)

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radiotekhniki i elektrosvyazi imeni Popova. (Electric networks)

8/103/62/023/010/005/008 D201/D308

Mazurov, M. Ye. (Moscow) AUTHOR:

TITLE:

Some applications of galvanomagnetic effects in semi-

conductors

PERIODICAL: Avtomatika i telemekhanika, v. 23, no. 10, 1962,

1352-1361

TEXT: A survey, based mostly on Russian literature of the possibilities of designing high-quality quadratic detectors and function multipliers based on the Hall effect and the 'quadratic effect' (Gauss effect) in semiconductors. Circuit diagrams of various types of detectors and multipliers are given and their respective merits discussed. The frequency range of Hall effect multiplier operation is stated to be from 0 to 1010 - 1012 c/s. The effect of the change of the semiconductor resistance in a magnetic field is called the Pikus effect based on the fact that in a semiconductor with current carriers of opposite signs there is an additional increase of the resistivity due to changes in the carrier

Card 1/2

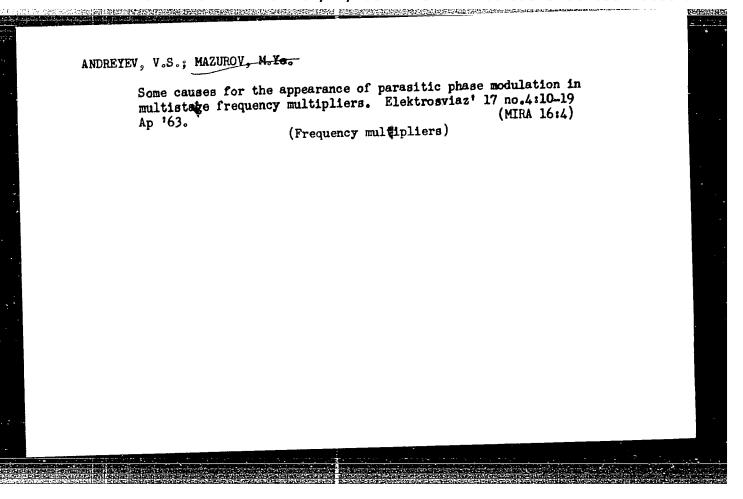
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Some applications of ...

concentration under the effect of current flow (G. Ye. Pikus, Zh. tekhn. fiz., v. 26, no. 1, 1956). O. V. Sorokin is mentioned for his contributions in the field. There are 8 figures.

SUBMITTED: March 3, 1962

Card 2/2



# MAZUROV, M.Ye.

Device for measuring variable magnetic fields. Prib. i tekh. eksp. 8 no.4:146-148 J1-Ag '63. (MIRA 16:12)

1. Moskovskiy elektrotekhnicheskiy institut svyazi.

MAZUROV, M.Ye.; PRUDNIKOV, I.N.

Electric current and voltage multiplier based on the Hall effect.

Prib. i tekh. eksp. 9 no.1:124-127 Ja-F '64. (MIRA 17:4)

1. Moskovskiy elektrotekhnicheskiy institut stali.

<u>L 25923-65</u> ENA(h)/EWT(1) Peb ACCESSION NR: AP5003852 S/0106/65/000/001/0023/0031

AUTHOR: Andreyev, V. S.; Mazurov, M. Ye.

TITLE: Experimental investigation of the causes of 1-f phase modulation in frequency multipliers [ Report at the All-Union Conference of NTORIE, 9 May 63]

SOURCE: Elektrosvyaz', no. 1, 1965, 23-31

TOPIC TAGS: <u>frequency multiplier</u>, spurious phase modulation

ABSTRACT: Results are reported of an experimental investigation of the effect of various factors on the spurious 1-f (mostly a-f) phase modulation (PM) in electron-tube and transistorized frequency multipliers operating in class C; a single oscillatory circuit tuned to the output frequency serves as a load. These causes of the spurious PM are listed: (a) superimposed 1-f noise; (b) presence of spurious components at the input whose frequencies are close to the signal frequency or its harmonics; (c) presence of a spurious AM in the input signal;

Card 1/2

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ACCESSION NR: AP5003852

(d) effect of the applied voltage on the collector-junction capacitance in transistors. These conclusions are drawn from the experimental data: (1) In electron-tube multipliers, the above spurious factors can be reduced by careful shielding, eliminating the supply-power ripple, operating the heaters on d-c, using high-Q circuits, employing a lower overall frequency-multiplication ratio; the spurious components should be attenuated by 80 db in order to keep the frequency deviation about 1 cps; (2) In transistor multipliers, apparently a compromise value of the circuit Q-factor should be used; recommended are: (a) the use of higher collector voltages; (b) the use of higher-frequency transistors with a small C<sub>c</sub>; (c) the use of top connection of the oscillatory circuit. Orig. art. has: 10 figures and 8 formulas.

ASSOCIATION: none

SUBMITTED: 28 May 64

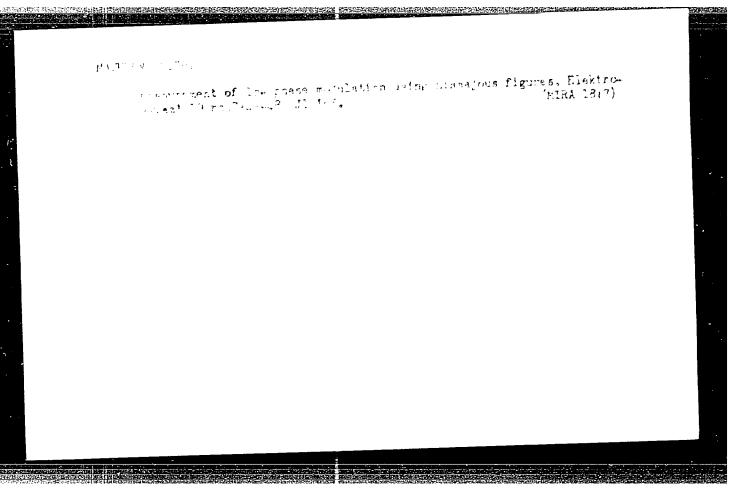
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L 23183-66 ENT(1)/ENA(6)

ACC NR: AP6004351

SOURCE CODE: UR/0108/65/020/010/0042/0049

AUTHOR: Mazurov, M. Ye. (Active member)

ORG: Scientific and Technical Society of Radio Engineering and Electrocommunication (Nauchno-tekhnicheskoye obsinchestvo radiotekhniki i elektrosvyazi)

Control of the state of the sta

TITLE: Broadband harmonic frequency dividers and multipliers

SOURCE: Radiotekhnika, v. 20, no. 10, 1965, 42-49

TOPIC TAGS: frequency divider, frequency multiplication, electronic circuit, signal frequency, frequency band, frequency control, electron tube

ABSTRACT: Circuits for frequency division and multiplication are suggested which are based on transferring the input-signal spectrum to a higher frequency range.

Then, the relative input frequency band becomes narrower which permits using conventional dividers and multipliers for frequency changing. This principle briefly discussed and illustrated by block diagrams has been experimentally verified with these results: (1) An electron-tube circuit was able to divide frequency by 2 within a 300-3500-cps band with a relative lock-in band of about  $\alpha = 10$  (usually,  $\alpha = 0.1$ ); (2) An experimental multiplying circuit, operating within the same band, had  $\alpha = 10$ 

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ACC NR: AP6016669	36
AUTHOR: Mazurov, M. Ye.	요하다. 그 없는 일이 가진 역사 연락하다. 그 그는 사람이 가는 등다는 것은 선생님의 화장이 불쾌했다.
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ORG: none TITLE: Measurement of small phase modulation	on by the Lissajou figure method
SOURCE: Elektrosvyaz', no. 7, 1965, 42-48	6
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ABSTRACT: The author describes a hi	ghly sensitive method of
magenring small phase modulation with	The method is
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I. 07800-67

ACC NR. AP6033678

SOURCE CODE: UR/0108/66/021/010/0060/0067

AUTHOR: Mazurov, M. Ye. (Active member)

23 B

ORG: Scientific and Technical Society of Radio Engineering and Electrocommunication im. A. S. Popov (Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi)

TITLE: Investigation of rectifying properties of contacts in Hall generators

SOURCE: Radiotekhnika, v. 21, no. 10, 1966, 60-67

TOPIC TAGS: Hall generator, Hall generator contact, semicondutar rectifier

ABSTRACT: A theoretical and experimental investigation of properties of metal-semiconductor contacts in Hall generators is offered because (a) imperfect contacts cause errors in Hall-type function multipliers and (b) no published information re this subject is known to the author. The imperfect contacts are responsible for spurious emf at the Hall-generator output which has a linear and nonlinear components. The linear component can be eliminated by a special compensating resistor. The nonlinear component is calculated by expanding the corresponding formula into a Taylor series (d-c supply) or a Fourier series (a-c supply). The contact-imperfection-caused errors were investigated experimentally on n-Ge, InSb, and InAs Hall generators at a frequency of 1000 kc and its harmonics (2, 3, 4 kc). It was found that the error occurring in InSb and InAs generators is considerably smaller than

Card 1/2

UDC: 621.382.61

L 07800-67  ACC NR: AP6033678  that of n-Ge generator. To reduce the error, these measures are recommended: lowering that of n-Ge generator. To reduce the error, these measures are recommended: lowering that of n-Ge generators the maximum current, better contact-soldering technique, selection of generators the maximum current, better contact-soldering technique, selection of generators the maximum current, better contact-soldering technique, selection of generators the maximum current, better contact-soldering technique, selection of generators the maximum current, better contact-soldering technique, selection of generators the maximum current, better contact-soldering technique, selection of generators the maximum current, better contact-soldering technique, selection of generators the maximum current, better contact-soldering technique, selection of generators the maximum current, better contact-soldering technique, selection of generators the maximum current, better contact-soldering technique, selection of generators the maximum current, better contact-soldering technique, selection of generators the maximum current, better contact-soldering technique, selection of generators the maximum current perfect the max						
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ACC NR: AP6019726

SOURCE CODE: UR/0108/66/021/006/0072/0073

AUTHOR: Andreyev, V. S. (Active member of the society): Mazurov, M. Ye. (Active member of the society)

ORG: Scientific and Technical Society of Radio Engineering and Electrocommunication im. A. S. Popov (Nauchno-tekhnicheskoye obshchestvo radiotekhniki i elektrosvyazi)

TITLE: Reducing spurious AM in frequency multipliers

SOURCE: Radiotekhnika, v. 21, no. 6, 1966, 72-73

TOPIC TAGS: frequency multiplier, amplitude modulation

ABSTRACT: It is theoretically possible to attain infinite reduction of spurious AM in frequency multipliers by using band-pass filters in their load circuits; the passband should be located between the (n-1)th and the (n+1)th harmonics of the

Card 1/2

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input signal; outside this band, the attenuation should rise abruptly to infinity. Practically, m-section compound electric filters, mechanical or quartz filters satisfy the above requirements. Oscillograms are shown which demonstrate that an electromechanical filter makes possible a 100-fold frequency multiplication in one stage without appreciable spurious AM. Orig. art. has: 2 figures and 5 formulas.

SUB CODE: 09 / SUBM DATE: 07Oct64

Com 2/2 155

MAZUROV, N.N.; PLOTNIKOV, P.A., nauchn. red.; YETON, L.L., red.
izd-va [decesed]; VAKHTINA, Ye.F., tekhn. red.

[Course in surveying for builders] Kurs gendezii dlia
stroitelei; uchebnoe posobie. Sverdlovsk. Izd. UFI.
No.1.[Geometric methods of surveying] Geometricheskie
sposoby s"emki. 1963. 136 p. (MIRA 17:4)

MAZUROV, P.N.

Machining gears for a switching loccmitive with 750 hp. rating. Biul.-tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. 1 tekh.inform. no.8:34-35 62. (MIRA 15:7)

(Machine tools)

MAZUROV, S.M.; POSVOL'SKIY, M.V.; YAMOVSKIY, V.V.

Research in the field of obtaining new heavy liquids for analyzing spore-pollen, diazons, and minerals. Razved.i okh.nedr 21 no.6: 16-20 N-D '55. (MLRA 9:12)

(Halides) (Mineralogy, Determinative) (Falcobotany)

MAZUROV, S.M.; DRUZHININ, I.P.

Ubtaining and using the M-25 liquid for extracting heavy fractions from sedimentary rocks. Zap. Vses. min. ob-va 87 no.4-508-511 '58. (MIRA 12:1)

(Rocks, Sedimentary)

ZONIS, Semen Aleksandrovich; MAZUROV, Sergey Mikhaylovich; KHAVIN, Z.Ya., redaktor; ERLIKH, Ye.Ya., tekhnicheskiy redaktor

[Lecture experiments and demonstration materials in organic chemistry]
Lektsionnye opyty i demonstratsionnye materialy po organicheskoi
khimii. Pod red. B.N.Dolgova. Leningrad, Gos.nauchno-tekhn. izd-vo
khim. lit-ry, 1956. 508 p.

(Chemistry, Organic-Experiments)

ZONIS, Semen Aleksandrovich; MAZUROV, Sergey Mikhaylovich; BEREZIN, B.I., red.; ZAKHARIKOVA, Ye.I., red.izd-va; GARINA, T.D., tekhn. red.

[Laboratory and lecture experiments and demonstration materials in organic chemistry] Laboratorno-lektsionnye opyty i demonstratsionnye materialy po organicheskoi khimii. <sup>1</sup>zd.2., ispr. i dep. Moskva, Gos. izd-vo "Vysshaia shkola," 1961. 720 p. (MIRA 15:3)

(Chemistry, Organic-Laboratory magnals)

Wethod for blasting holes in using hydraulic stenning.

Bezop. truda v prem. 1 no.8:13-14 Ag '57. (MLRA 10:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy ugol'nyy institut.

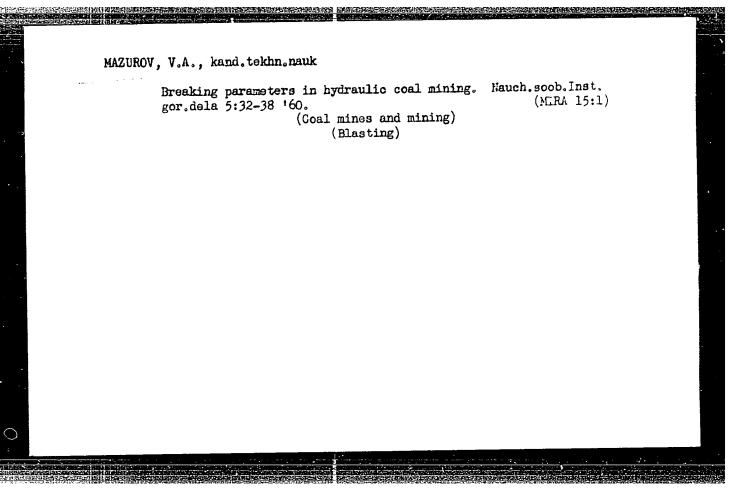
(Coal mines and mining)

MAZUROV, V.A., gornyy inzh.

Blasting to loosen the coal seam for hydraulic mining. Ugol' 33 (MIRA 11:6) no.6:11-16 Je '58.

(Hydraulic mining) (Blasting)

MAZUROV, V. A., Candidate Tech Sci (diss) -- "Investigation of the hydro-explosive method of coal cutting, and establishing cutting parameters". Moscow, 1959. 20 pp (Acad Sci USSR, Inst of Mining), 150 copies (KL, Ro 24, 1959, 138)



ISHCHUK, I.G., gornyy inzh.; MAZUROV, V.A., kand.tekhn.nauk

Effectiveness of loosening coal blocks and controlling dust by means of water infusion into the seam in stoping operations. Ugol' 35 no.8:43-47 Ag '60.

(Stoping (Mining))

MAZUROV, V.A., kand.tekhn.nauk

Breaking-off parameters in the hydraulic and blasting system of coal mining. Ugol' 36 no.11:34-37 N'61. (MFRA 14:11)

1. Institut gornogo dela imeni A.A. Skochinskogo. (Hydraulic mining) (Elasting)

YEVE ROPOV. Proceedings of the symmetric of blasting in construction; the symmetric of blasting in construction; the symmetric of blasting in coll and rock | Vzryvnye rehoty v stroitel'stve; dinamika vzryva v gruntakh i gornykh porodakh. Moskve, Stroitadat, 1965. 206 p. (MIRA 18:12)

L-07355-67 ACC NRI AP6012178 (A)

SOURCE CODE: UR/0413/66/000/007/0118/0118

AUTHORS: Bekker, D. I.; Mazuroy, V. A.; Cherkasheninov, V. I.

23

ORG: none

TITLE: A sealing device for the subsurface mining storage of gas and petroleum products. Class 81, No. 180521 / announced by All-Union Scientific Research Institute of Gasprom SSSR for Subsurface Gassification of Coal / Vsesoyuznyy nauchno-issledovatel skiy institut podzemnoy gazifikatsii ugley Gazproma SSSR)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 7, 1966, 118

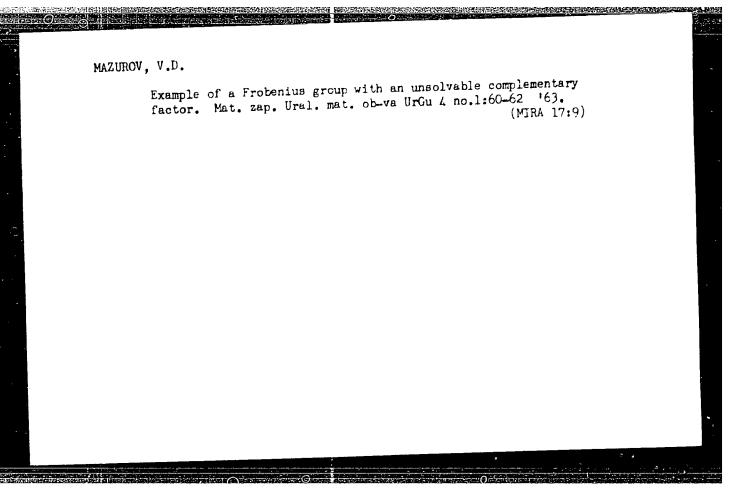
TOPIC TAGS: underground facility, gas pressure, natural gas, petroleum product, fuel storage, storage tank

ABSTRACT: This Author Certificate presents a sealing device for the subsurface mining storage of gas and petroleum products. To utilize the pressure of the stored product for additional strengthening of the structure, the latter is made in the form of a spherical or cylindrical shell (see Fig. 1). The structure is provided with a tension mechanism and bears against a strengthening insert placed on the

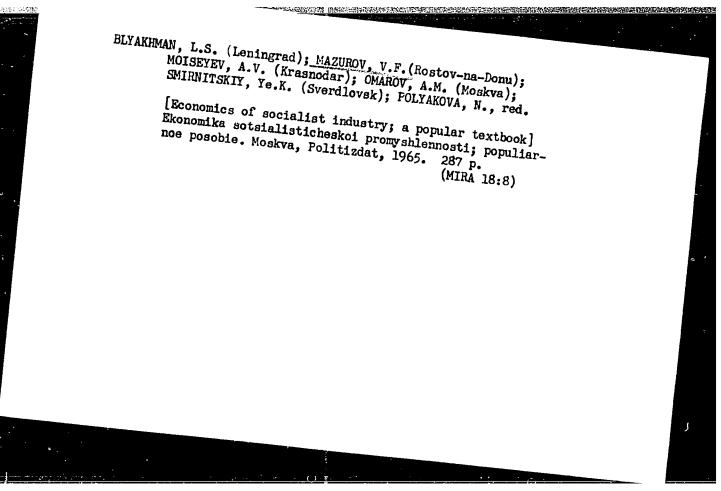
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UDC: 622.56.002.54:622.692.24

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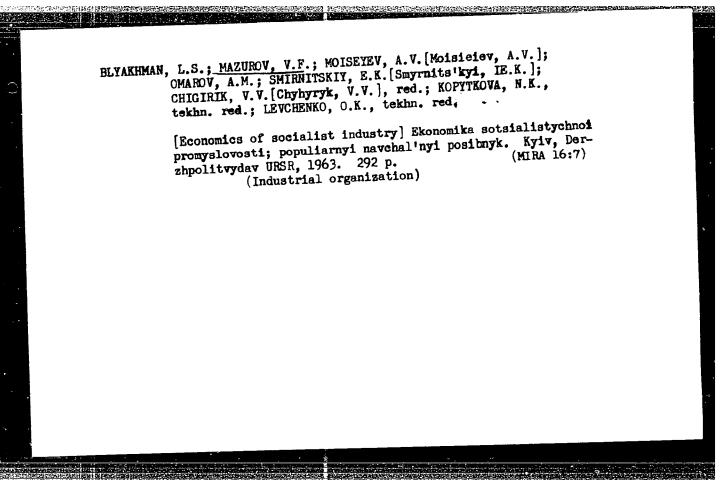


	MAZUROV, V. F.		PA 20/49T56	
		USSR/Engineering Sep 4 Water Cooling Towers Ice Protection	B /	
Q.		"New Method for Preventing Icing in Cooling Towers, V. F. Mazurov, Engr, 1 p	·	,
		"Elek Stants" No 9  Describes how water spray was used to prevent ice forming on cooling tower.	•	
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24 3EA 46				



BLYAKHMAN, L.S.; MAZUROV, V.F.; MOISEYEV, A.V.; OMAROV, A.M.;
SMIRNITSKIY, Ye.K.FODGORNOVA, V., red.; TROYANOVSKAYA, N.,
tekhn. red.

[Economics of socialist industry; popular textbook] Ekonomika sotsialisticheskoi promyshlennosti; populiarnoe uchebnoe posobie. Moskva, Gospolitizdat, 1962. 302 p. (MIRA15:9) (Industrial management)



BLYAKHMAN, L.S. (Leningrad); MAZUJOV, V.F. (Rostov-na-Donu);
MOISEYEV, A.V. (Krasnodar); G.AROV, A.M. (Moskva);
AIRNITSKIY, Ye.K. (Sverdlovsk); PODGC-NOVA, V., red.

[Economics of socialist industry; a popular textbook]
Ekonomika sotsialisticheskoi promyshlennosti; populiarnoe
uchebnoe possoble. Izd.2., dop. i perer. Moskva, Politizdat, 1964. 302 p.

(MIRA 17:7)

PHASE I BOOK EXPLOITATION

**SOV/**3767

- Orlov, G. M., V. L. Lesnichenko, U. B. Utemisov, V. I. Mazurov, and K. F. Ignatova
- Izgotovleniye liteynykh form pressovaniyem pod bol'shim davleniyem

  (High-Pressure Method of Making Foundry Molds) Moscow, 1958. 28 p.

  (Series: Peredovoy opyt proizvodstva. Ser. "Tekhnologiya mashinostroyeniya,"

  vyp. 31, Liteynoye proizvodstvo) 4,000 copies printed.
- Sponsoring Agencies: Obshchestvo po rasprostraneniyu politicheskikh i nauchnykh znaniy RSFSR, and Moscow Dom nauchno-tekhnicheskoy propagandy imeni F. E. Dzerzhinskogo.
- Ed.: L. S. Konstantinov; Reviewer: L. M. Garmash; Tech. Ed.: R. A. Sukhareva.
- PURPOSE: This booklet is intended for metallurgists specializing in the production of castings.
- COVERAGE: This booklet deals with the results of experimental investigations undertaken by MIITAvtoprom of the process of compression molding under high pressure. Practical recommendations are presented, and an investigation of the basic production parameters conducted by the authors at NIITAvtoprom Card 1/2

High-Pressure Method of Making Foundry Molds	sov/3767
and workers at MAMI is described. In the Introduction mental work done by NIITAvtoprom since 1956 on the processings is presented. No personalities are mentioned references: 6 Soviet, 7 English, and 1 German.	OWWO AT AM AT LEAST
TABLE OF CONTENTS:	
Introduction	3
I. Development of the Pressure-Molding Process	3
IT Development and Investigation of the spining compound	7 17
TIT. Investigation of the Pressure-Molding Process	23
V. Sample Calculation of the Economic Effectiveness of Applied to Motor-Vehicle Castings	26
AVAILABLE: Library of Congress	
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Card 2/2	6-15-60

ORLOV, G.M.; IGNATOVA, K.F.; LESHICHENKO, V.L.; MAZUROV, V.I.; UTENISOV, U.B.

Progressive molding method. Lit.proizv. no.2:6-8 7 '60.

(Molding (Founding))

MAZUROV, V.I.; OREKHOVICH, V.N.

Comparative study of soluble collagenlike proteins [with summary in English]. Biokhimita 24 no.1:33-38 Ja-F '59. (MIRA 12:4)

1. Institute of Biological and Medical Chemistry, Academy of Medical Sciences of the U.S.S.R., Moscow. (PROTEINS, soluble collagen-like proteins, comparison (Rus))

SOV/20-125-2-48/64 Mazurov, V. I., Orekhovich, V. H., 17(3) AUTHORS: Member, AMS USSR

Inclusion of the Radioactive Glycine B Into the  $\alpha-$  and  $\beta-\text{Com}$ ponents of Procollagene (Vklyucheniye radioaktivnogo glitsina v TITLE: prokollagena)

 $\alpha$ - i  $\beta$ -komponenty

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 2, pp 408-410 PERIODICAL:

(USSR)

The procollagene molecule in the skin of rats decomposes with the action of urea, KCNS, and heating into two protein com-ABSTRACT: ponents (Ref 1). The latter represent two maxima in the ultra-

centrifuge. The lighter component (a) has a molecular weight of 125,000 the heavier one  $(\beta)$  has a molecular weight of 295,000. Since the weight ratio  $\alpha$ :  $\beta$  in the procollagene molecule was 1: 1, it was assumed that this molecule consists of two  $\alpha$  particles and one  $\beta$  particle (Ref 2). Meanwhile, the components mentioned have been investigated rather well from a physicochemical point of view. Yet it cannot be maintained absolutely according to these data that the native procollagene

molecule represents a complex of two structural entities.

Therefore the problem mentioned in the title was interesting

Card 1/3

Inclusion of the Radioactive Glycine B Into the  $\alpha$ - and  $\beta$ -Components of Procollagene

SOV/20-125-2-48/64

with respect to the rate of influence of both components.

White rats were intraperitoneally injected with  $c^{14}$  glycine marked on carboxyl. The animals were killed 3, 6, 12, 18, 24, 48, and 144 hours after the injection. It was proved that the

inclusion intensity of  $c^{14}$  into the  $\alpha$ -component is about three times as strong as in the case of the  $\beta$ -component (Fig 1). The arithmetic mean value of the radioactivity of both components was about equal to the activity of the whole preparation  $\alpha$  +  $\beta$ . Apparently, this confirms also the abovementioned weight ratio of 1: 1 of the components. Figure 1

further indicates that the inclusion intensity of c14 attains a rather high level 3 hours after the injection. The highest degree of radioactivity is attained after 48 hours. In the  $\alpha$ -component it was attained after 18 hours and in the  $\beta\text{--component}$  after 48 hours. In the course of the experiment this intensity of the  $\alpha$ -component was 3 to 4 times as high as that of the  $\beta$ -component. The authors are not able to explain this difference. They suppose that there is an

Card 2/3

Inclusion of the Radioactive Glycine B Into the  $\alpha-$  and  $\beta-\text{Components}$  of Procollagene

SOV/20-125-2-48/64

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independent synthesis of both components within the cell. The results obtained are insufficient for drawing definite conclusions on the nature of these components. They indicate, however, that certain sections of the polypeptide chain of the procollagene molecule are not equivalent as far as their biological properties are concerned. There are 1 figure and 6 references, 5 of which are Soviet.

ASSOCIATION:

Institut biologicheskoy i meditsinskoy khimii Akademii meditsinskikh nauk SSSR (Institute of Biological and Medical Chemistry of the Academy of Medical Sciences, USSR)

SUBMITTED:

December 9, 1958

Card 3/3

MAZUROY, V. I., CAND BIO SCI, COMPARATIVE INVESTMENTS OF SOLUBLE COLLAGENIC PROTEINS OF CONNECTIVE TISSUE. MOSCOW, 1960. (ACAD MED SCI USSR). (KL, 2-61, 204).

-85-

MAZUROV, V.I.; OREKHOVICH, V.N. Studying the of - and & components of procollagers. Biokhimia 25 no.5:814-824 S-0 160. (MIRA 14:1)

1. Institute of Biological and Medical Chemistry, Academy of Medical Sciences of the U.S.S.R., Moscow. (PROCOLLAGEM)

## MAZUROV V.I.

Biosynthesis and fibrillogenesis of collagen proteins. Vop.med. khim. 8 no.1:3-16 Ja-F '62. (MIRA 15:11)

l. Institut biologicheskoy i meditsinskoy khimii AMN SSSR, Moskva.

(COLLAGEN) (PROTEINS)

SMIRNOV, V.N.; MAZUROV, V.I.; GONCHAROVA, V.P.; SMIRNOV, M.N.; SHKARENKOVA, L.

RNA and collagen synthesis by fibroblasts during the formation of a connective tissue neoplasm. Vop.med.khim. 10 nc.3:305-310 My-Je \*64. (MIRA 18:2)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR i Institut biologicheskoy i meditsinskoy khimii AMN SSSR, Moskva.

MAZUROV, V.I.; OREKHOVICH, V.N.

Unusual effect of actinomycin on the synthesis of resizem in the cartilage tissue of chick embryos, Dokl. AN S. R Police 3:742-745 Ja \*66. (MIRA 19:1)

1. Institut biologi heskey i meditsinskoy khimii THE CER. 2. Devstvitelinyy chien AMN SCLR (for Orekhovica). Submitted October 28, 1965.

MAZUROV, V.I.; OREKHOVICH, V.N.

Changes in the Mucleotide composition of fibroblast ribonucleic acid during the process of connective tissue regeneration. Vop. med. khim. 9 no.4:436-440 J1-Ag 63 (MIRA 17:4)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR, Moskva.

MAZUROV, Ye.F.

Power losses in arc furnaces. Metallurg 8 nc.12:20-21 D '63. (MIRA 17:4)
1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii.

MAZUROV, Ye.F.; GNUCHEV, S.M.; SKRIPCHUK, V.S.; MARKIN, A.A.; LYALIN, Ye.S.

Sponge iron used as a charge material. Metallurg 9 no.11:17-19 N \*64. (MIRA 18:2)

1. TSentral nyy nauchno-issledovatel skiy institut chernoy metallurgii imeni I.P.Bardina.

是主义。14年4月1日至10年2月27日,15年2月2日,15年2月2日,15年2月2日,16年2月2日,16年2日,17年2日,17年2日,17年2日,17年2日,17年2日,17年2日,17年2日,17年2日,17年

ACC NR: AP7003871 (N) SOURCE CODE: UR/0133/67/000/001/0044/0044

AUTHOR: Gnuchev, S.M.; Salautin, V.A.; Klochkova, Z.V.; Mazurov, Ye.F.

ORG: none

SOURCE:

TITLE: Effect of some processes during steel melting in a 100-ton arc furnace

TOPIC TAGS: steel production, silicon steel, termology metal

multing, are furness, steel manufacture process
ABSTRACT: A technological process of making of

Stal', no. 1, 1967, 44

A technological process of making silicon steel in an arc furnace has been developed by the Central Scientific Research Institute of Ferrous Metallurgy im. Bardin in cooperation with the Novolipetsk Metallurgical Plant. The process combines melt-down and oxidizing periods and eliminates ore addition after melting of charge. A water-cooled oxygen lance is used for metal blowing and electromagnetic stirring of melted metal. Nonmetallic impurities are removed by slag treatment while the metal is tapped into the ladle. Oxygen is blown into the bath for 10—15 min when the carbon content reaches 0.08—0.127. The process decreases the refining period to 1 hr and reduces the oxygen content closer to the equilibrium state and the sulfur content to 0.0037.

SUB CODE: //,13/ SUBM DATE: none/ ATD PRESS: 5114 Card 1/1 UDC: 669.187.2.001.5

L: 16425-65 EEC(k)-2/EWA(h)/EWP(k)/EWT(1)/FBD/T SCTB/LJP(c) WG ACC NR. AP6003564: SOURCE CODE: UR/0109/66/011/001/0152/0154 AUTHOR: Grigor'yants, V. V.; Mazurov, Yu. A. ORG: none TITLE: Resonator for tuning maser by means of Zeeman modulation SOURCE: Radiotekhnika i elektronika, v. 11, no. 1, 1966, 152-154 TOPIC TAGS: maser, maser tuning, Zeeman maser tuning ABSTRACT: The present use of brass or copper resonators essentially affects the relative frequency stability of a maser because these resonators have a rather poor temperature coefficient of frequency as compared to that of invar resonators. To remedy this situation, a new design (see figure) is suggested in which the resonator can be made from invar, steel or other magnetic material and yet the maser can be magnetically tuned. The effect is achieved by a split resonator, the slits extending longitudinally from one end to within a few millimeters from the other end. This design permits using the resonators as a single-turn coil for producing, inside the resonator, Card 1/2 UDC: 621, 378, 33

ld is pr	esente	d. These t	hree resonat	ors were e	kperimentally	for calculating to investigated:	he
		<u></u>		£.	Gap	Material	
	1	1.4 cm	0.5 cm	5 cm	0.4 mm	steel	
	2	1.25	0.5	5	2	steel	
	3	1.4	0.5	5	0.4	brass	-
practionultaneo	ally dusly s	oes not affe	t plane are b	resented. tor O-facto	It was found	(distribution), and that the longituding cipal mode and figures and	ad al
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MAZUROVA, A. A.: Master Tech Sci (diss) -- "The application of the autoclave method to the processing of sulfide gold ores and concentrates". Moscow, 1957.

18 pp (Min Higher Educ USSR, Moscow Inst of Nonferrous Metals and Gold im M. I. Kalinin), 150 copies (KL, No 5, 1959, 150)

MAZUROVA, A.A.; PLAKSIN, I.H.

Leaching in autoclaves under oxygen pressure of gold-containing pyrite-arsenic concentrates. Izv. vys. ucheb. zav.; tsvet. met. no.2:100-107 \*58. (MIRA 11:8)

1. Koskovskiy institut tsvetnykh metallov i zolota. Kafedra metallurgii blagorodnykh metallov.

(Gold ores)

PLAKSIN, I.N.: MAZUROVA, A.A.

Studying the process of arsenical pyrite exidation by exygen under pressure at high temperatures and in alkaline media.

Inv.vys.ucheb.zav.; tsvet.met. 2 no.4:97-105 \*59.

(MIRA 13:1)

Moskovskiy institut tsvetnykh metallov i zolota. Kafedra metallurgii blagorodnykh metallov.
 (Sulfides--Metallurgy) (Arsenic)

Mazupova, 4.A., GINDIK, 1 M.

Falladium extraction with tr 4-onlylemine hydrochioride. Zhur.
neorg. khim. 10 no.2:489-496 - 165. (MiFA 18:11)

L. Institut neorganicheakoy khimi: Sibirakogo esmeleniya AM
SSSR. Submitted July 29, 1963.

GINDIN, L.M.; IVANOVA, S.N.; MAZUROVA, A.A.; MIRONOVA, L.Ya.

Extraction of platinum metals with salts of quaternary ammonium bases. Zhur. neorg. khim. 10 no.2:502-506 F '65.

(MIRA 18:11)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SSSR. Submitted May 12, 1964.

MAZUROVA, A.A.; GINDIN, L.M.

Extraction of hydrochloric acid with tri-n-octylamine.
Zhur.neorg.khim. 10 no.11:2559-2563 N '65. (MIRA 18:12)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya
AN SSSR. Submitted April 11, 1964.

MEDYANTSEV, A.N., kand. tekhm. nauk; ICFIS, M.A., inzh.; MAZUROVA, A.I., inzh.

Graphic distribution of displacements and deformations of the earth's surface above mine workings in the Donets Easin. [Trudy] WNIMI no.47:140-154 \*62 (MIEA17:7)

MUN, A.I.; MAZUROVA, A.L.; MOROZOV, N.P.

Gocurrence of microeliments in thermal and cold sources of Kazakhstan.
Trudy Inst.khim.nauk AN Kazakh.SSR 10:70-87 164.

(MIRA 17:10)

# MAZUROVA, A.M., assistent

(1) 1000 (1

Electrocardiographic and ballistocardiographic changes in chronic tonsillitis. Uch. zap. Stavr. gos. med. inst. 12: 347-348 '63.

Dynamics of endotheliosis in chronic tonsillitis with lesions of the heart. Ibid.:353 (MIRA 17:9)

l. Kafedra bolezney ukha, gorla i nosa (zav. prof. I.M. Sobol')
i kafedra faul'tetskoy terapii (zav. dotsent N.A. Aushev)
Stavropol'skogo gosudarstvennogo meditsinskogo instituta.

AUSHEV , N.A., dots., MAZUROVA, A.M.

Acute caterrhal pancreatitis as a complication of influenza.
Vrach.delo no.9:983-985 S'58 (MIRA 11:10)

1. Kafedra fakul'tetskoy terapii (zav.-prof. S.P. Zavodskoy)
Stavropol'skogo meditsinskogo instituta.
(INFLUENZA)
(PANCREAS--DISEASES)

AUSHEV, N.A., dotsent; MAZUROVA, A.M.

Use of intravenous infusions of bismuth carbonate. Vrach.delo no.11:147-148 N '62. (MIRA 16:2)

1. Kafedra fakul'tetskoy terapii (zav. - dotsent N.A. Aushev)
Stavropol'skogo mediteinskogo instituta.

(BISMUTH—CARBONATE) (INJECTIONS, INTRAVENOUS)

ZAGRANICHNYY, V.I.; POLYAKOVA, Z.A.; Prinimali uchastiye: MAZUROVA, G.Ye.; SHISHKINA, S.S.

Solubility in water of melamine and some of its derivatives. Khim.prom. no.9:692-694 S '63. (MIRA 16:12)

ALEKHIN, S.N.; BORZASEKOV, V.F.; MAZUROVA, L.G.

Underground waters in Tertiary deposits of Kopet-Dag. Izv. AH Turk.
SSR. Ser. fiz.-tekh., khim. i geol.nauk no.5:92-98 '61.

(MIRA 14:11)

1. Institut geologii AN Turkmenskoy SSR.
(Kopet-Dag--Water, Underground)

GAYDAMAKA, M.G., MAZUROVA, L.P.

Method of tissue culture without plasma. Vop.virus 3 no.4:244-247
Jl-Ag '58,
(TISSUE CULTURE)

(MIRA 11:9)

STREET STREET

ACC NR. AP6034526 SOURCE CODE: UR/0016/66/000/010/0117/0120 AUTHOR: Mazurova, L. P.; Martishin, M. Ye. ORG: Central Scientific Research Institute for Disinfection, Moscow (Tsentral'nyy nauchno-issledovatel'skiy dezinfektsionnyy institut) TITLE: Bactericidal activity of propriolactone fog SOURCE: Zhurnal mikrobiologii, epidemiologii, i immunobiologii, no. 10, TOPIC TAGS: bactericide, bacteria, propriolactone, E. Coli, S. aureus ABSTRACT: Propriolactone in a finely dispersed fog  $(d_m = 1.3 \mu)$  was found to have high bactericidal and sporicidal activity in experiments using a 0.5 m3 aerosol chamber. E. coli was killed on artificially infected surfaces after a five-minute exposure to a 1.5 g/m<sup>3</sup> concentration of propriolactone. S. aureus was eliminated by 6 g/m3 over a two-hr exposure, and 12 g/m<sup>3</sup> for two hr destroyed anthracoid spores. [EL] [WA-50; CBE No. 14] SUB CODE: 06/ 28Mar66/ ORIG REF: 006/ OTH REF: SUBM DATE: Card 1/1 UDO: 615.3:547.476.1-014.173-017.77/79

MAZUROVA, N.I.; KAYDANOVSKAYA, S.I.

Results of examination of women who had been sources of gonorrheal infections. Vest.ven. 1 derm. 30 no.5:42-45 S-0 '56. (MIRA 9:12)

1. Iz Novosibirskogo gorodskogo kozhmo-venerologicheskogo dispansera (dir. F.I.Kolpakov, nauchnyy rukovoditel' - dotsent M.I.Khasin) (GOROBRHEA, diag.

latent gonorrhea in women as in sources of infect.)

MAZUROVA, N. N.

Category: USSR / Physical Chemistry - Electrochemistry

B~12

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 30141

Author : Fayzullin F. F., Mazurova N. N.

Inst : Kazan' University
Title : Potentiographic St

: Potentiographic Study of Cathodic Reduction of Oxide Films on

Copper.

Orig Pub: Uch. zap. Kazansk. un-ta, 1956, 116, No 5, 73-76

Abstract: In continuing the previously published work (RZhKhim, 1957, 11358)

a study was made, by the method of the potential versus time  $(\varphi,\,\tau)$  curves, of cathodic reduction of the anodically formed oxide films on Cu, in 20% NaOH, at i=0.4 a/dm² and  $80^{\circ}$ . It was found that in the case of cathodic reduction of the black oxide film the  $(\psi^{\circ},\tau)$  curves show two prolonged  $\varphi$  stops (-0.13 and -0.32 v), and two short  $\varphi$  stops (-0.50 and -0.74 v), which occur before evolution of hydrogen. In the opinion of the authors the first two stops correspond to the reduction of CuO to Cu O and of Cu O to Cu, which is confirmed by the nature of the  $(\varphi,\,\tau)$  curves of cathodic

Card : 1/2

-11-

MAZUROVA, S. M.; KHOZINSKIY, V. I.; ZEYBIL, V. B.; TSYPKIN, L. B.; PANTELEYEV, 1..S.

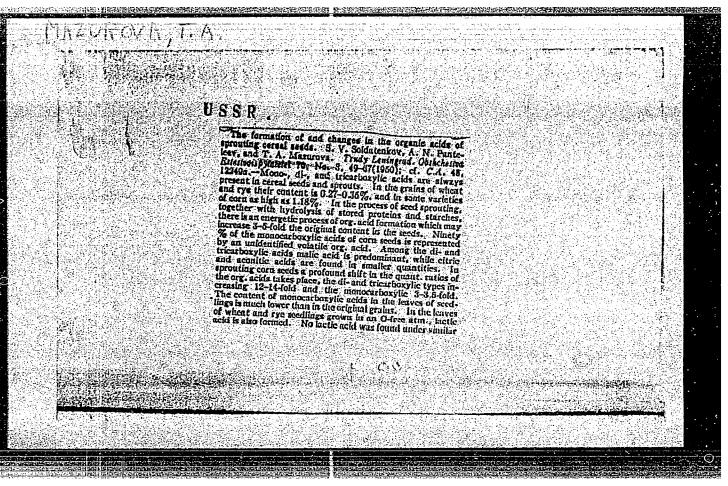
"Utilization of a New Diploid Cell Strain Derived from Human Embryo Lung Tissue for the Cultivation of Enteroviruses and Measles-Virus."

Report presented at the Symposium on Biological Standardization, Opatija, Yugoslavia, 24-26 Sep 63.

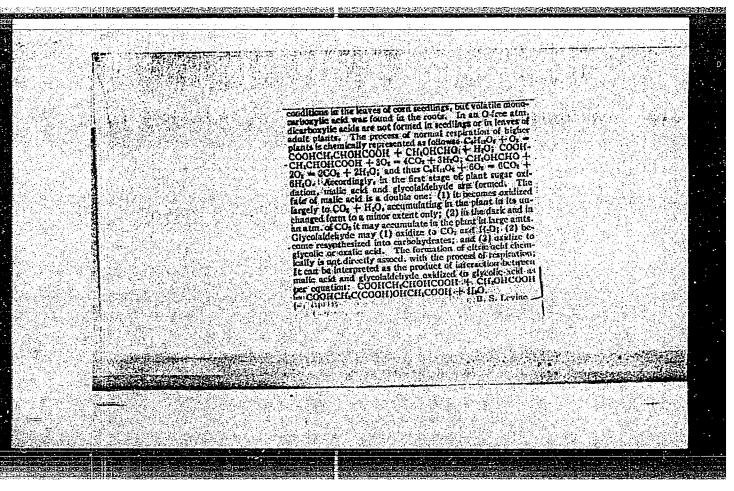
HOZINSKI, V.I.; SEYBIL, V.B.; TSYPKIN, L.B.; PANTELEEVA, N.S.; MAZUROVA, S.M.

Attempt to establish a diploid cell strain from human embryonic tissue-and testing its sensitivity to some viruses. Acta virol. 8 no.5:454-458 S '64.

1. Institute of Poliomyelitis and Viral Encephalitides, U.S.S.R. Academy of Medical Sciences, Moscow.



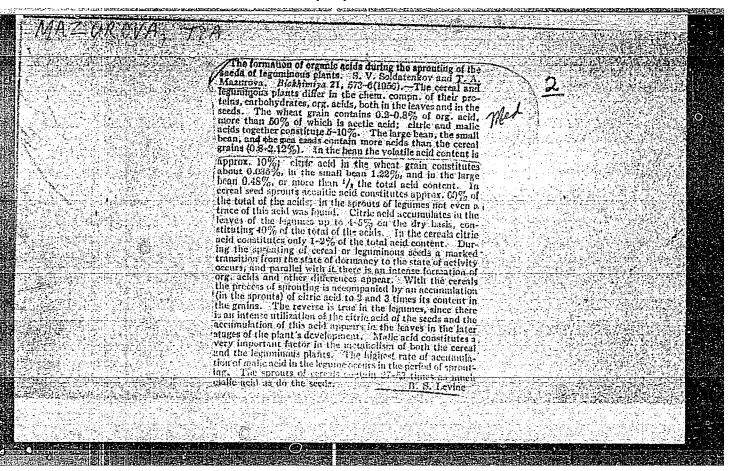
"APPROVED FOR RELEASE: 07/12/2001 CIA-RDP86-00513R001033210005-6



SOLDATERKOV, S.V.; MAZUROVA, T.A.

Conversion of organic acids in growth and maturation of wheat seeds.
Biokhimila 19 no.3:349-356 Ky-Je '54. (MLRA 7:8)

1. Kafedar size at a set a second construction of wheat seeds.
(ACIDS, organic, metab. in wheat)
(MHRAT, organic acids in)



SOLDATERKOV, S.V.: MAZUROVA, T.A.

Hew acids as products of primary exidation of sugars in leguminous plants [with English summary in insert]. Biokhimitia 21 no.6:652-662 W-D '56. (MIRA 10:7)

1. Kafedra fiziologii rasteniy Leningradskogo gosudarstvennogo universiteta imeni A.A.Zhdanova. (SUGARS)

(LEGUMES) (ACIDS, ORGANIC) (SUGARS)

Melonic ecid in leguminous plants Lwith summery in English].

Biokhimitia 22 no.1/2:345-350 Ja-F '57. (MIRA 10:7)

1. Enfedra fiziologii resteniy Leningradekogo gosudarstvennogo universiteta in, A.A. Zhdanova.

(MALONIC ACID) (IRGUMINOSAE)

Quantitative determination of di- and tricarboxylic ecids by paper chromatography. Fiziol.rast. 6 no.1:112-117 Ja-F '59.

(MIRA 12:2)

1. Department of Plant Physiology, Leningrad University.

(Plants—Chemical analysis) (Acids, Organic)

(Paper chromatography)

MAZUROVA, T. A., SOLDATENKOV, S. V., (USSR)

"The Formation of Acids from the Primary Oxidation of Sugars in Plants and their Utilization."

Report presented at the 5th Int'l. Biochemistry Congress. Moscow. 10-16 Aug 1961.

SOLDATENKOV, S.V.; MIRYAKUBOVA, M.G.; MAZUROVA, T.A.; KALUGINA, Ye.V.

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